

IN THE SPECIFICATION AND ABSTRACT

Please amend the specification as follows:

Examiner is directed to the attached mark up set of the specifications constituting the amendments to the specification showing deletions by strikeouts in red and insertions in black underline. A clean copy of the Specification, Claims, and Abstract is also attached identified by red label on the back of each set of the amended papers.

IN THE CLAIMS

Please amend the claims as follows:

(twice amended) 1. An improved non-tacky crystal gels comprising:

(I) 100 parts by weight of

(i) one or more ~~substantially random copolymers (pseudo-random copolymers or poly(ethylene-styrene) interpolymers)~~ having one or more glassy components and at least one substantially crystalline components, wherein said (i) copolymers being in combination with a selected amount of one or more selected second copolymers comprising:

(ii) one or more substantially random copolymers having one or more glassy components and one or more ~~crystalline~~ crystalline components of ~~negligible crystallinity, low crystallinity, or moderate crystallinity;~~

(iii) one or more substantially random copolymers having one or more glassy components and one or more ~~crystalline~~ crystalline components of negligible polyethylene crystallinity or low polyethylene crystallinity;

(iv) one or more substantially random copolymers having one or more glassy components and one or more amorphous components;

(v) one or more of a diblock, triblock, multi-arm block, branched block, radial block, or multiblock copolymers, wherein said (v) copolymers having one or more glassy components and one or more elastomeric components of selected crystallinity; and

(vi) one or more of a diblock, triblock, multi-arm block, branched block, radial block, or multiblock copolymers, wherein said (vi) copolymers having one or more glassy components and one or more amorphous elastomeric components;

(vii) a mixture of two or more (ii)-(vi) copolymers;

wherein said (i)-(iii) and (v) copolymers are characterized by one or more polyethylene components of negligible crystallinity, low crystallinity, moderate crystallinity, or of sufficient crystallinity as to exhibit a melting curve at about 10°C or greater as determined by DSC curve;

(II) in combination with or without one or more of selected homopolymers of polystyrene,

poly(alpha-methylstyrene), poly(o-methylstyrene), poly(m-methylstyrene), poly(p-methylstyrene), or poly(dimethylphenylene oxide); and

(III) a selected amount of one or more compatible low-viscosity plasticizers of sufficient amounts to achieve a stable gel having rigidities of from less than about 2 gram Bloom to about 1,800 gram Bloom.

(twice amended) 2. An improved non-tacky crystal gel composition according to claim 1, wherein said crystalline components having a selected crystallinity capable of exhibiting in differential scanning calorimeter (DSC) a melting at about 10°C or higher.

(twice amended) 9. A non-tacky crystal gel composition of claim 1 having a minor amount of at least one or more glassy component associating resins having softening points above about 120°C.

(twice amended) 10. A gel composite comprising non-tacky a gel composition, G_n which comprises comprising:

(i) 100 parts by weight of one or more ~~hydrogenated styrene isoprene/butadiene~~ poly(styrene-ethylene-ethylene-propylene-styrene) block copolymers of ~~negligible crystallinity or low crystallinity,~~ wherein at least one of said block copolymer is a high viscosity copolymer having a viscosity value at 5 weight percent solution in toluene at 30°C of about 90 cps and higher which corresponds to a viscosity at 10 weight percent of about 5800 cps and higher which corresponds to a viscosity at 20 weight percent solids solution in toluene at 2°C of at about 80,000 cps and higher, and from

(ii) about 250 to about 1,600 parts by weight of a low viscosity plasticizing oil; said gel compositions characterized by a gel gram Bloom of about 2 to about ~~2000~~ 1,800 gram bloom; and in combination with or without

(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-butylene), poly(styrene-ethylene-propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), polypropylene, or polyethylene; wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; and

(iv) with or without a minor amount of at least one or more glassy component associating resins having softening points above about 120°C;

wherein said gel composition is formed into a composite with one or more of a selected substrate material, M, said composite formed from the combination $G_n M_n$, $G_n M_n G_n$, $M_n G_n M_n$, $M_n G_n G_n$,

M_nM_nM_nG_n, M_nM_nM_nG_nM_n, M_nG_nG_nM_n, G_nM_nG_nG_n, G_nM_nM_nG_n, G_nG_nM_nM_n, G_nG_nM_nG_nM_n, G_nM_nG_nM_nM_n, M_nG_nM_nG_nM_nG_n, G_nG_nM_nM_nG_n, G_nG_nM_nG_nM_nG_n, a sequential addition or a permutation of one or more of said G_n with M_n; wherein when n is a subscript of M, n is the same or different selected from the group consisting of foam, plastic, fabric, metal, concrete, wood, glass, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity;

wherein a source of said (i) poly(styrene-ethylene-ethylene-propylene-styrene) block polymers being Septon®.

(twice amended) 11. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or more hydrogenated styrene block copolymers having 2-methyl-1,3-butadiene and 1,3-butadiene blocks, wherein said block copolymer of negligible crystallinity or low crystallinity, is a high viscosity copolymer having a viscosity value at 5 weight percent solution in toluene at 30°C of about 90 cps and higher which corresponds to a viscosity at 10 weight percent of about 5800 cps and higher which corresponds to a viscosity at 20 weight percent solids solution in toluene at 25°C of about 80,000 cps and higher, and from

(ii) about 250 to about 1,600 parts by weight of a low viscosity plasticizing oil; said gelatinous elastomer compositions characterized by a gel gram Bloom rigidity of about 2 to about 2000 gram bloom; and in combination with or without

(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-butylene), poly(styrene-ethylene-propylene)_n, poly(styrene-ethylene-butylene)_n, poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; and with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; wherein a source of said (i) block polymer being Septon®.

(twice amended) 12. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or more block copolymer of poly(styrene-ethylene/ethylene-propylene-styrene) of negligible polyethylene crystallinity or low polyethylene crystallinity, wherein said block copolymer is a high viscosity copolymer having a viscosity value at 5 weight percent solution in toluene at 30°C of about 90 cps and higher which corresponds to a viscosity at 10 weight percent of about

5800 cps and higher which corresponds to a viscosity at 20 weight percent solids solution in toluene at 25°C of at about 80,000 cps and higher, and from

(ii) about 250 to about 1,600 parts by weight of a ~~low-viscosity~~ plasticizing oil; said gelatinous elastomer compositions characterized by a gel gram Bloom of about 2 to about 2000 gram bloom; and in combination with or without

(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-butylene), poly(styrene-ethylene-propylene)_n, poly(styrene-ethylene-butylene)_n, poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; and with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; wherein a source of said (i) block polymer being Septon®.

(twice amended) 13. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or a mixture of two or more of a hydrogenated styrene isoprene/butadiene block copolymer(s) having selected crystallinity and from

(ii) about 300 to about 1,600 parts by weight of a ~~low-viscosity~~ plasticizing oil; said gelatinous elastomer compositions characterized by a gel rigidity of from about 20 to about 800 gram Bloom; and in combination with or without

(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene-styrene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; and with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C.

(twice amended) 14. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or a mixture of two or more of a hydrogenated styrene isoprene/butadiene block copolymer(s) ~~exhibiting selected crystallinity~~ and

(ii) from about 300 to about 1,600 parts by weight of an plasticizing oil; wherein said gelatinous elastomer compositions characterized by a gel rigidity of from about 20 to about 800 gram Bloom; in combination with or without

(iii) a selected amount of one or more polymer or copolymer of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene-styrene), poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, branched, star-shaped, or multiarm copolymer, and n is an integer greater than one; and with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; wherein a source of said (i) block polymer being Septon®.

(once amended) 15. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or a mixture of two or more of a hydrogenated styrene block copolymer(s) of selected crystallinity with 2-methyl-1,3-butadiene and 1,3-butadiene and

(ii) from about 300 to about 1,600 parts by weight of an plasticizing oil; wherein said gelatinous elastomer compositions characterized by a gel rigidity of from about 20 to about 800 gram Bloom; in combination with or without

(iii) a selected amount of one or more selected polymer or copolymer selected from the group consisting of poly(styrene-butadiene-styrene), poly(styrene-butadiene), poly(styrene-isoprene-styrene), poly(styrene-isoprene), poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, branched, star-shaped, or multiarm copolymer; and n is an integer greater than one, and

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C.

(twice amended) 16. A ~~non-tacky~~ gel composition comprising:

(i) 100 parts by weight of one or ~~a mixture of two or more of a~~ hydrogenated styrene poly(styrene-ethylene-ethylene-propylene-styrene) block copolymer(s) of ~~negligible crystallinity or low crystallinity, with 2-methyl-1,3-butadiene and 1,3-butadiene block~~ polymer(s) and

(ii) from about 300 to about 1,600 parts by weight of an plasticizing oil, and in combination with or without

(ii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene), poly(styrene-isoprene-styrene), poly(styrene-isoprene), poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, branched, radial, star-shaped, or multiarm copolymer; and n is an integer greater than one; and with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; wherein a source of said (i) poly(styrene-ethylene-ethylene-propylene-styrene) block polymers being Septon®.

(once amended) 17. A non-tacky gel of claim 10 wherein said hydrogenated styrene block copolymer is one or more of a block copolymer of poly(styrene-ethylene-ethylene-propylene-styrene).

(once amended) 18. A composite article of claim 11, wherein a source of said hydrogenated poly(styrene-isoprene/butadiene-styrene) block polymer being Septon® 4033, Septon® 4045, and Septon® 4055 and said resins being Aldrich Nos.: 32,771-9 (2,500M_w), 32,772-7 (4,000 Mw), 37,951-4 (13,000 Mw), 32-774-3 (20,000 Mw), 32,775-1 (35,000 Mw), 33,034-5 (50,000 Mw), 32,777-8 (90,000 Mw), poly(alpha-methylstyrene) #41,794-7 (1,300 Mw), 19,184-1 (4,000 Mw); poly(4-methylstyrene) #18,227-3 (72,000 Mw); Hercules Chemical: Endex 155, 160, Kristalex 120, 140; (Regalrez 1126, 1128, 1139, 3102, 5095, and 6108), hydrogenated mixed aromatic resins (Regalite R125), Picco 5130, 5140, 9140; GE: Blendex HPP820, HPP822, HPP823; Cumar LX509, Cumar 130, Lx-1035).

(Once amended) 19. A composite formed from the gel compositions of claim 16 comprising:

(I) 100 parts by weight of

(i) one or more ~~substantially random copolymers (pseudo-random copolymers or poly(ethylene-styrene) interpolymers)~~ having one or more glassy components and at least one substantially crystalline components, wherein said (i) copolymers being in combination with a selected amount of one or more selected second copolymers comprising:

(ii) one or more substantially random copolymers having one or more glassy components and one or more ~~crystalline~~ crystalline components of moderate crystallinity;

(iii) one or more substantially random copolymers having one or more glassy components and

one or more ~~crystalline~~ crystalline components of low crystallinity;

(iv) one or more ~~substantially random copolymers~~ poly(ethylene-styrene), interpolymers, produced by metallocene catalysts, having one or more glassy components and one or more amorphous polyethylene components;

(v) one or more of a diblock, triblock, multi-arm block, branched block, radial block, or multiblock copolymers, wherein said (v) copolymers having one or more glassy components and one or more elastomeric components of selected crystallinity; and

(vi) one or more of a diblock, triblock, multi-arm block, branched block, radial block, or multiblock copolymers, wherein said (vi) copolymers having one or more glassy components and one or more ~~amorphous~~ amorphous elastomeric components;

(vii) a mixture of ~~two~~ two or more (ii)-(vi) copolymers;
wherein said (i), (ii), and (iii) and ~~(v)~~ copolymers are characterized by sufficient crystallinity as to exhibit a melting endotherm of at least about 25°C as determined by DSC curve, and said crystal gel being characterized by sufficient crystallinity as to exhibit a melting endotherm of at least about 10°C as determined by DSC curve, and wherein said (v) copolymers are capable of exhibiting negligible, low, or moderate crystallinity;

(II) in combination with or without one or more of selected homopolymers; and

(III) a selected amount of one or more compatible plasticizers of sufficient amounts to achieve a stable gel having rigidities of from less than about 2 gram Bloom to about 1,800 gram;

wherein said gel composition denoted by G, which is formed into a composite with one or more of a selected substrate material, M, said composite formed from the combination $G_n M_n$, $G_n M_n G_n$, $M_n G_n M_n$, $M_n G_n G_n$, $M_n M_n M_n G_n$, $M_n M_n M_n G_n M_n$, $M_n G_n G_n M_n$, $G_n M_n G_n G_n$, $G_n M_n M_n G_n$, $G_n G_n M_n M_n$, $G_n G_n M_n G_n M_n$, $G_n M_n G_n M_n M_n$, $M_n G_n M_n G_n M_n G_n$, $G_n G_n M_n M_n G_n$, $G_n G_n M_n G_n M_n G_n$, a sequential addition or a permutation of one or more of said G_n with M_n ; wherein when n is a subscript of M, n is the same or different selected from the group consisting of foam, plastic, fabric, metal, concrete, wood, glass, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity.

(twice amended) 20. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or a mixture of two or more poly(styrene-ethylene-ethylene-propylene-styrene) block copolymer(s); from

(ii) about 300 to about 1,600 parts by weight of a plasticizing oil; said gel composition characterized by a gel rigidity of from about 20 to about 800 gram Bloom; and in combination with

(iii) a selected amount of one or more block copolymers of poly(styrene-butadiene-styrene),

poly(styrene-butadiene)_n, and poly(styrene-ethylene-butylene-styrene), wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one. of a hydrogenated styrene block copolymer(s) exhibiting selected crystallinity with 2-methyl-1,3-butadiene and 1,3-butadiene,

~~(ii) from about 300 to about 1,600 parts by weight of an plasticizing oil, and in combination with or without~~

~~(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), or poly(styrene-butadiene)_n, poly(styrene-isoprene-styrene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene-propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; wherein said gelatinous elastomer composition characterized by a gel rigidity of from about 20 to about 800 gram Bloom;~~

~~— (iv) — a minor amount of at least one or more glassy component associating resins having softening points above about 120°C.~~

(twice amended) 21. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or a mixture of two or more poly(styrene-ethylene-ethylene-propylene-styrene) block copolymer(s); from

(ii) about 300 to about 1,600 parts by weight of a plasticizing oil; said gel composition characterized by a gel rigidity of from about 20 to about 800 gram Bloom; and in combination with

(iii) a selected amount of one or more block copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-ethylene-propylene-styrene), and poly(styrene-ethylene-butylene-styrene), wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one.. of a hydrogenated poly(styrene-isoprene/butadiene-styrene) block polymer(s) exhibiting selected crystallinity and-

~~— (ii) — from about 300 to about 1,600 parts by weight of an plasticizing oil, and in combination with or without~~

~~— (iii) — a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene-styrene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene), poly(styrene-ethylene-propylene-styrene);~~

~~— (iv) — poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), poly(styrene-ethylene-propylene)_n, poly(styrene-ethylene-butylene)_n, polystyrene, polybutylene, poly(ethylene-~~

~~propylene), poly(ethylene-butylene), polypropylene, or polyethylene, wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; and wherein said gelatinous elastomer composition characterized by a gel rigidity of from about 20 to about 800 gram Bloom;~~

~~(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C.~~

(once amended) 22. A composite according to claim 15, wherein said hydrogenated styrene block polymer is one or more of a block copolymer of poly(styrene-ethylene-ethylene-propylene-styrene), and a source of said poly(styrene-ethylene-ethylene-propylene-styrene) being Septon® 4033, Septon® 4045, and Septon® 4055 and said resins being Hercules Chemical: Endex 155, 160, Kristalex 120, 140; (Regalrez 1126, 1128, 1139, 3102, 5095, and 6108), (Regalite R125), Picco 5130, 5140, 9140; and GE: Blendex HPP820, HPP822, HPP823.

(once amended) 23. A non-tacky gel composition comprising:

(i) 100 parts by weight of one or more block copolymer of poly(styrene-ethylene-ethylene propylene-styrene) exhibiting selected crystallinity, and from

(ii) about 300 to about 1,600 parts by weight of a low viscosity plasticizing oil; with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Hercules Chemical: Endex 155, 160, Kristalex 120, 140; (Regalrez 1126, 1128, 1139, 3102, 5095, and 6108), hydrogenated mixed aromatic resins (Regalite R125), Picco 5130, 5140, 9140; and GE: Blendex HPP820, HPP822, HPP823.

(once amended) 24. A non-tacky gel composition, comprising: (i) 100 parts by weight of one or more of a hydrogenated styrene isoprene/butadiene copolymer exhibiting selected crystallinity, wherein a source of said copolymers being Septon® 4033, Septon® 4045, and Septon® 4055 and from

(ii) about 300 to about 1,600 parts by weight of a low viscosity plasticizing oil;

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Hercules Chemical: Endex 155, 160, Kristalex 120, 140; (Regalrez 1126, 1128, 1139, 3102, 5095, and 6108), hydrogenated mixed aromatic resins (Regalite R125), Picco 5130, 5140, 9140.

(twice amended) 25. A non-tacky gel composition, comprising:

(i) 100 parts by weight of a hydrogenated styrene isoprene/butadiene copolymer ~~exhibiting selected~~

~~crystallinity~~, wherein a source of said block copolymer being Septon® 4033, Septon® 4045, and Septon® 4055, and from

- (ii) about 300 to about 1,600 parts by weight of a low viscosity plasticizing oil;
- (iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Hercules Chemical: Endex 155, 160, Kristalex 120, 140.

(once amended) 26. A non-tacky gel composition, comprising:

- (i) 100 parts by weight of one or more block copolymers of poly(styrene-ethylene-ethylene propylene-styrene) exhibiting selected crystallinity, wherein a source of said block copolymers being Septon® 4033, Septon® 4045, and Septon® 4055, and from
- (ii) about 300 to about 1,600 parts by weight of a low viscosity plasticizing oil;
- (iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Hercules Chemical: Regalrez 1126, 1128, 1139, 3102, 5095, and 6108, hydrogenated mixed aromatic resins (Regalite R125), Picco 5130, 5140, 9140.

(twice amended) 27. A non-tacky gel composition, comprising: (i) 100 parts by weight of one or more of a hydrogenated styrene isoprene/butadiene copolymers, ~~exhibiting selected crystallinity~~, wherein a source of said block copolymers being Septon® 4033, Septon® 4045, and Septon® 4055 and from

- (ii) about 300 to about 1,600 parts by weight of a low viscosity plasticizing oil; and in combination with or without
- (iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-isoprene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-propylene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene)_n, poly(styrene ethylene-butylene)_n, polystyrene, polybutylene, polyethylene, polypropylene;
- (iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being GE: Blendex HPP820, HPP822, and HPP823.

(twice amended) 28. A non-tacky gel composition, comprising:

- (i) 100 parts by weight of s hydrogenated styrene block copolymers having 2-methyl-1,3 butadiene and 1,3-butadiene blocks, ~~exhibiting selected crystallinity~~, wherein a source of said block copolymers being Septon® 4033, Septon® 4045, and Septon® 4055, and from
- (ii) about 300 to about 1,600 parts by weight of a ~~low viscosity~~ plasticizing oil; and in combination with or without
- (iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene),

poly(styrene-isoprene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-propylene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene)_n, poly(styrene ethylene-butylene)_n, polystyrene, polybutylene, polyethylene, polypropylene; wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one;

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Aldrich Nos.: 32,771-9 (2,500M_w), 32,772-7 (4,000 Mw), 37,951-4 (13,000 Mw), 32-774-3 (20,000 Mw), 32,775-1 (35,000 Mw), 33,034-5 (50,000 Mw), 32,777-8 (90,000 Mw), poly(alpha-methylstyrene) #41,794-7 (1,300 Mw), 19,184-1 (4,000 Mw); poly(4-methylstyrene) #18,227-3 (72,000 Mw).

(twice amended) 29. A non-tacky gel composition, comprising:

(i) 100 parts by weight of one or more block copolymer of poly(styrene-ethylene-ethylene propylene-styrene), ~~exhibiting selected crystallinity~~, wherein a source of said block copolymer being Septon® 4033, Septon® 4045, and Septon® 4055 and from

(ii) about 300 to about 1,600 parts by weight of a ~~low-viscosity~~ plasticizing oil; and in combination with or without

(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-isoprene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-propylene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene)_n, poly(styrene ethylene-butylene)_n, polystyrene, polybutylene, polyethylene, polypropylene; wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one;

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Aldrich Nos.: 32,771-9 (2,500M_w), 32,772-7 (4,000 Mw), 37,951-4 (13,000 Mw), 32-774-3 (20,000 Mw), 32,775-1 (35,000 Mw), 33,034-5 (50,000 Mw), 32,777-8 (90,000 Mw), poly(alpha-methylstyrene) #41,794-7 (1,300 Mw), 19,184-1 (4,000 Mw); poly(4-methylstyrene) #18,227-3 (72,000 Mw); Hercules Chemical: Endex 155, 160, Kristalex 120, 140.

(twice amended) 30. A composite comprising a ~~gelatinous-elastomer~~ composition, G_n, formed from

(i) 100 parts by weight a block copolymer comprising poly(styrene-ethylene-ethylene-propylene styrene), ~~block copolymers exhibiting selected crystallinity~~, wherein a source of said block copolymer being Septon® 4033, Septon® 4045, and Septon® 4055, and from

(ii) about 300 to about 1,600 parts by weight of a ~~low-viscosity~~ selected plasticizing oil; and in

combination with or without

(iii) a selected amount of one or more polymers or copolymers of poly(styrene-butadiene-styrene), poly(styrene-isoprene-styrene), poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-propylene-styrene), poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene)_n, poly(styrene ethylene-butylene)_n, polystyrene, polybutylene, polyethylene, polypropylene; wherein said selected copolymer is a linear, radial, star-shaped, branched or multiarm copolymer, wherein n is greater than one; with or without

(iv) a minor amount of at least one or more glassy component associating resins having softening points above about 120°C; and said resins being Hercules Chemical: Regalrez 1126, 1128, 1139, 3102, 5095, and 6108;

wherein said gel composition denoted by G, which is formed into a composite with one or more of a selected substrate material, M, said composite formed from the combination $G_n M_n$, $G_n M_n G_n$, $M_n G_n M_n$, $M_n G_n G_n$, $M_n M_n M_n G_n$, $M_n M_n M_n G_n M_n$, $M_n G_n G_n M_n$, $G_n M_n G_n G_n$, $G_n M_n M_n G_n$, $G_n G_n M_n M_n$, $G_n G_n M_n G_n M_n$, $G_n M_n G_n M_n M_n$, $M_n G_n M_n G_n M_n G_n$, $G_n G_n M_n M_n G_n$, $G_n G_n M_n G_n M_n G_n$, a sequential addition or a permutation of one or more of said G_n with M_n ; wherein when n is a subscript of M, n is the same or different selected from the group consisting of foam, plastic, fabric, metal, concrete, wood, glass, ceramics, synthetic resin, synthetic fibers or refractory materials; and wherein when n is a subscript of G, n denotes the same or a different gel rigidity.

(Once amended) 31. A prosthetic device comprising a lower extremity socket insert for below knee or above knee with or without a cuff suspension formed from a gel composition of claim 49 16.

32. A prosthetic device comprising a lower extremity socket insert for below knee or above knee with or without a cuff suspension formed from a gel composite claim 10, wherein M is a fabric.

(once amended) 33. A composite of claim 20, wherein said hydrogenated styrene block copolymer(s) with 2-methyl-1,3-butadiene and 1,3-butadiene is poly(styrene-ethylene-ethylene propylene-styrene) exhibiting selected crystallinity, and a source of said poly(styrene-ethylene-ethylene-propylene-styrene) being Septon® 4033, Septon® 4045, and Septon® 4055 and said resins being Aldrich Nos.: 32,771-9 (2,500M_w), 32,772-7 (4,000 Mw), 37,951-4 (13,000 Mw), 32-774-3 (20,000 Mw), 32,775-1 (35,000 Mw), 33,034-5 (50,000 Mw), 32,777-8 (90,000 Mw), poly(alpha-methylstyrene) #41,794-7 (1,300 Mw), 19,184-1 (4,000 Mw); poly(4-methylstyrene) #18,227-3 (72,000 Mw); Hercules Chemical: Endex 155, 160, Kristalex 120, 140; (Regalrez 1126, 1128, 1139, 3102, 5095, and 6108), hydrogenated mixed aromatic resins (Regalite R125), Picco 5130, 5140, 9140; GE: Blendex HPP820, HPP822, HPP823; Cumar LX509, Cumar 130, Lx-1035).